

SPECIALIZED DESANDERS USA



PRODUCT GUIDE



[DESANDERS.COM](https://www.desanders.com)

SDI ADVANTAGE

PATENTED & PROVEN

SDI Desanders are developed and tested by our experienced engineering team, earning us over 20 notable patents and industry research acclaim. Our equipment has logged millions of hours on North American well sites and provides our clients reliable and proven performance to combat the operation realities they face.

If your current desanding equipment isn't getting the job done, consider a Horizontal or SynPOL™ Desander.

MORE THAN SAVINGS

Sand passing through to your process equipment can have catastrophic cost and cause significant damage meaning more \$ down the pipe. Operators have saved up to 55% on flowback costs and get to production desanding 40% sooner with SDI.

Eliminate unnecessary maintenance costs by getting it right the first time.

DATA THAT PUTS YOU IN CONTROL

Sand Sentry allows you to manage your well data remotely. Monitor sand capture and schedule clean-outs only when needed, lowering methane exposure and daily blow downs. Our dashboard visualizes your data, providing you real-time, accurate information anytime, anywhere, on any device.

End the guessing game of sand management and have 100% data accuracy.

INDUSTRY BEST SAND CAPTURE

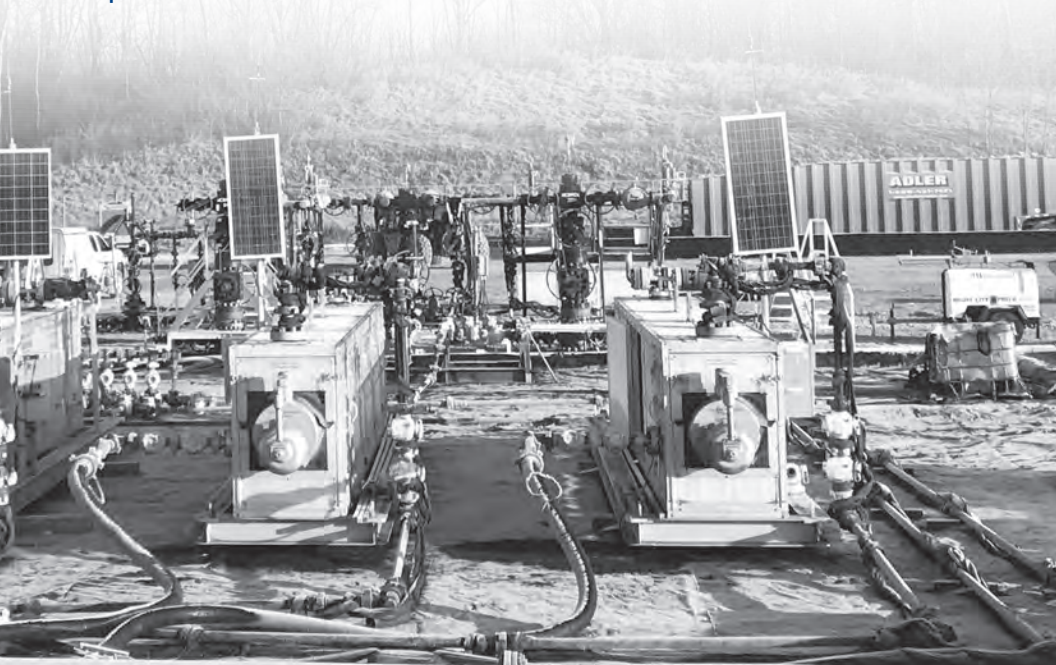
Desanders are engineered to keep you productive and reduce worry. You can be assured you have 99%+ of sand captured at the well head with SDI. With constant field study and equipment testing, we regularly evolve from industry evaluation. There is a good reason why we're often copied, but never duplicated.

Unsure? We have case studies and millions of hours of logged data to prove it.

BEYOND SAFETY AND BEST PRACTICES

SDI's daily business is undertaken with the objective that at the end of every day, our employees will go home unharmed. Our employees conduct themselves with the integrity that protects themselves, others around them, property and the environment while maintaining compliance with all applicable laws.

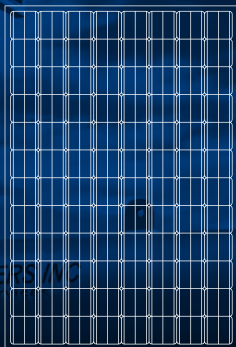
A successful Safety Management System requires the involvement of employees at all levels. Our cooperative process defines the essential components and supports employees by having resources available to them for leading edge equipment, training and protective devices.



SAND SENTRY™

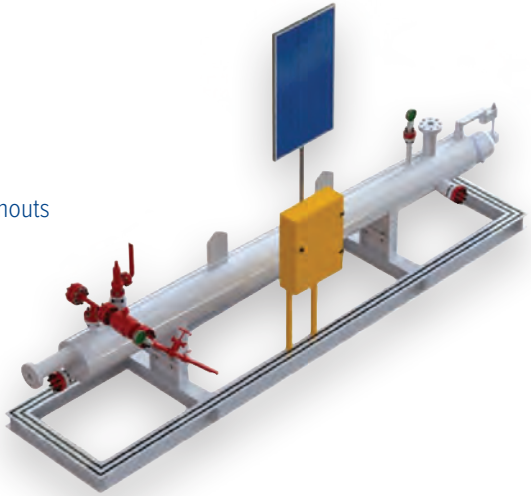
HOW IT WORKS

Sand Sentry™ is a web-based on-site sand monitoring system that will monitor your sand production automatically and make sure you know when cleanouts are required. Access your data anytime, anywhere and be notified by SMS or email when cleanouts are required. Sand Sentry™ allows the operator to monitor the sand production at the well site or online to schedule Desander cleanouts as required. This system can be integrated into a well site SCADA system to automate shutdown protocol. It results in minimal downtime, saving you time and money.



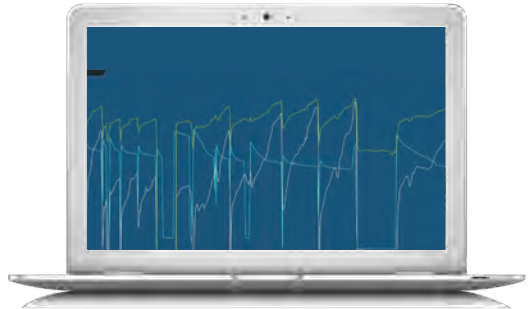
HIGHLIGHTS

- Local Display and Internet Access
- Allows Scheduling of Desander Cleanouts
- Monitor and Track Sand Production
- Monitor Remote Access Locations
- No Unnecessary Cleanouts
- Solar Powered
- Battery Backup
- Reduced Man Power



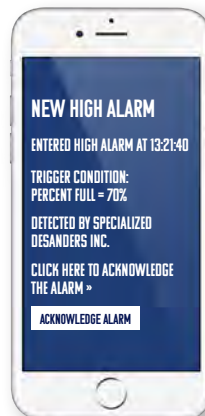
KEY FEATURES

- Class 1 Div. 2 – Intrinsically Safe
- Self-contained Solar Power Supply with battery backup
- Modbus Communication RS232/485
- RTU Modems Cellular and Satellite
- SCADA Integration



Real Time Analysis of:

- Pressure and Temperature
- Amount of Sand
- % Full
- Total Weight



GRAVITY DESANDER

HOW IT WORKS

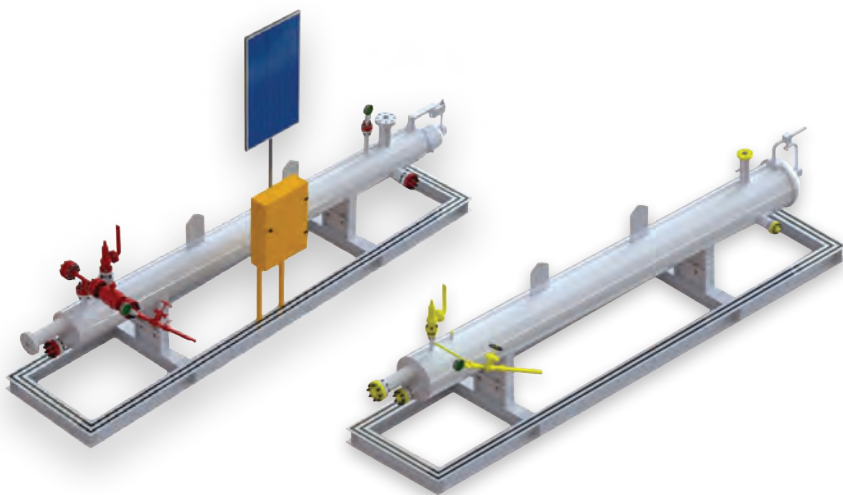
SDI installs its patented Desander upstream of customers' surface equipment to remove sand and other particulates such as asphaltenes and free precipitates, from natural gas and liquid streams. SDI's Desander works by temporarily changing the flow parameters, reducing the flow velocities in the Desander to the point where the sand drops out while gas and fluids are carried through. This process involves no bags, filters, screens and no pressure drop.

Specialized Desanders function effectively over a broad range of flowrates. Sized to work with high initial rates, they are also able to handle the higher gas phase velocities that develop as production continues and flow pressures drop. This mechanism allows the same equipment to remain in service despite changing conditions. For wells with continuing sand production, the SDI Desander will protect your surface equipment throughout, which is why our experience and reliability are unrivaled by any competitor.



HIGHLIGHTS

- Pressure ratings 1,400 psi - 10,000 psi
- Temperature ratings -50°F to 400°F (Heated units available)
- Registered ASME, ABSA & National Board Certified
- Sweet & Sour Service Models
- Compatible with Sand Sentry™
- Eliminates Flaring
- No Pressure Drop
- Compact, Portable Size
- Easy Servicing & Minimal Clean Out Time
- Zero Emissions Capable
- High Sand Capacity
- Manual and Closed Loop Cleanouts



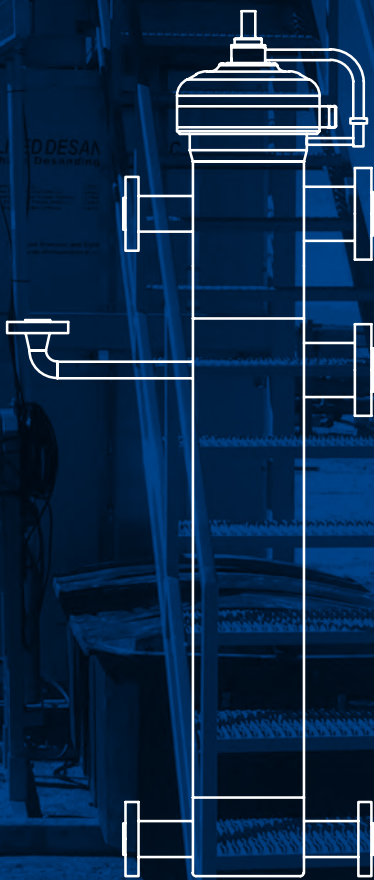
CAPTURE EFFICIENCY	PERFORMANCE RANGE
150 Micron/ 100 Mesh 99+% Capture	< 13,000 bbl/day Liquid Production Rate < 50 MMscf Gas Production Rate < 5 psi Pressure Drop 134-4,200 lb Sand Capacity
100 Micron/ 140 Mesh 98% Capture	
75 Micron/ 200 Mesh 95% Capture	

— SYNPOL™

HOW IT WORKS

Specialized Desanders SynPOL™ is designed to handle produced fluids from oil and gas wells during second phase production. As an alternative to the gravity desander, the SynPOL™ operates by using a stacked plate physical barrier that acts as a filter to block sand and particulates. Our ASME/ABSA registered units are designed to withstand the harshest conditions, with a low maintenance closed loop system for sand removal.

The vertical configuration of the SynPOL™ allows for ease of cleanout, with back flush or blowdown on the fly. Allowing the producer to operate their wells safely and economically for years to come. Our state-of-the-art Synthetic barrier technology allows the SynPOL™ element to have a collapse rating higher than the MAWP of the vessel. This means no more collapsed filters or downtime.



HIGHLIGHTS

- Temperatures to 400°F
- Pressure Rating up to 6,000 psi on the vessel
- Proprietary barrier available from sizes 100 to 200 micron
- Barrier Guaranteed Against Collapse
- Differential pressure crush strength greater than 6,000 psi
- Long-Term Sand Protection Solution
- Registered ASME, ABSA & National Board Certified
- Sweet & Sour Service Models
- Compatible with Sand Sentry™ Monitoring for Differential Pressure
- Eliminates Flaring
- Manual Flush or Automated Cleanout
- Compact, Portable Size
- Minimal Cleanout Time
- Zero Emissions Capable
- Warranty Against Collapse



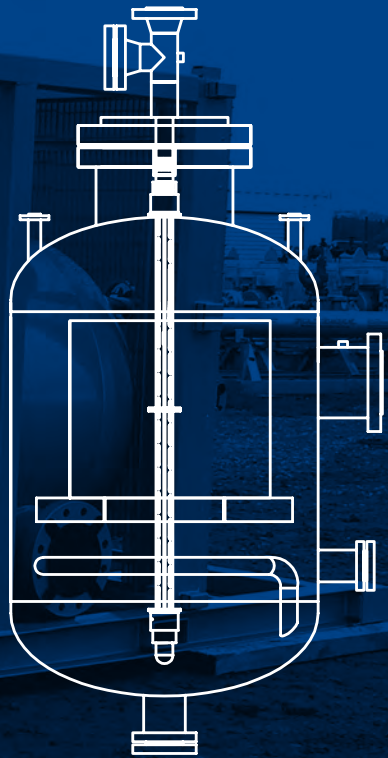
CAPTURE EFFICIENCY	PERFORMANCE RANGE
150 Micron/ 100 Mesh 99+% Capture	< 5,000 bbl/day Liquid Production Rate < 15 MMscf Gas Rate < 35 psi Pressure Drop <397 lb Sand Capacity
100 Micron/ 140 Mesh 98% Capture	
75 Micron/ 200 Mesh 96% Capture	

— MEGA POL™ —

HOW IT WORKS

The MegaPOL™ is Specialized Desanders' largest desander engineered to date. Tipping the scales at 2350kg sand capacity, this equipment piece is designed for high production wells with tonnes of sand.

MegaPOL™ has flexible clean out options available. Operators can clean out the unit using a manual flush. Inquire with our SDI team on flush clean out or automated options.



HIGHLIGHTS

- 5180lbs Sand Capacity
- 349gal Liquid Capacity
- 8" tie in and out
- Long Term Solution
- Sweet & Sour Service
- Compatible with Sand Sentry™
Monitoring for Differential Pressure
- Eliminates Flaring
- Manual Flush or Automated Cleanout
- Zero Emissions Capable
- Warranty Against Collapse
- 150°F MAWT



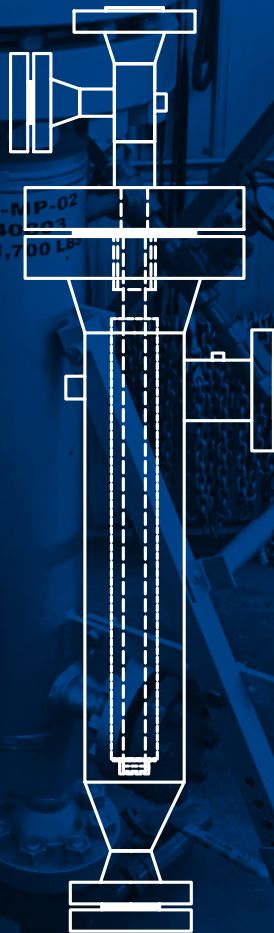
CAPTURE EFFICIENCY	PERFORMANCE RANGE
150 Micron/ 100 Mesh 99+% Capture	< 15,000 bbl/day Liquid Production Rate < 45 MMscf Gas Rate < 35 psi Pressure Drop <5,180 lb Sand Capacity
100 Micron/ 140 Mesh 98% Capture	
75 Micron/ 200 Mesh 96% Capture	

MINI POL™

HOW IT WORKS

The MiniPOL™ is a smaller, more compact unit in comparison to the SynPOL™. Intended for later life wells that have limited sand production but still want to ensure maximum solids capture. This small package features a compact footprint to incorporate easily into existing flowlines. This unit is ideal for long term solids and frac communication protection for wells that have lower production rates.

Clean out is simple and quick, by using a blowdown technique. Operators can clean out the desander without having to shut in. MiniPOL™ is the long term, affordable solution for your well operation.



HIGHLIGHTS

- 7'3" x 4' x 4'
- Warranty Against Collapse
- 100 to 200 Micron Capture
- Long Term Solution
- Sweet & Sour Service
- Compatible with Sand Sentry™ Monitoring for Differential Pressure
- Eliminates Flaring
- Manual Flush or Automated Cleanout
- Compact
- Zero Emissions Capable



CAPTURE EFFICIENCY	PERFORMANCE RANGE
150 Micron/ 100 Mesh 99+% Capture	< 1,500 bbl/day Liquid Production Rate < 5 MMscf Gas Rate < 35 psi Pressure Drop* < 104 lb Sand Capacity
100 Micron/ 140 Mesh 98% Capture	
75 Micron/ 200 Mesh 96% Capture	

The background of the entire page is a photograph of industrial machinery, likely a pump or valve assembly, with various pipes, flanges, and bolts. The image is heavily overlaid with a solid blue color, which serves as a background for the white text.

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